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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22852

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WASHINGTON, DC 20001-4413

09/29/2009

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW EXAMINER

NGUYEN, KIMBINH T

ART UNIT PAPER NUMBER

2628

DATE MAILED: 09/29/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|                 |             |                      |                     |                  |

10/581,363 12/05/2008 Rieko Fukushima 02887.0401 4793

TITLE OF INVENTION: METHOD FOR PRODUCING MULTI-VIEWPOINT IMAGE FOR THREE-DIMENSIONAL IMAGE DISPLAY AND PROGRAM THEREFOR

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 12/29/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

| maintenance fee notifica   | tions.  |   |   |   |  |   | correspondence address as<br>arate "FEE ADDRESS" for<br>or domestic mailings of the   |
|--|---|---|---|---|--|---|---|
| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)   |   |   | Fee<br>pap  | (s) Transmittal. Th<br>ers. Each additiona  | is certii<br>Il paper                            | icate cannot be used f  | or any other accompanying of the or formal drawing, must  |
| 22852  |   | /2009   |   |   |  | 63.6 UL TO  |   |
| FINNEGAN, F<br>LLP<br>901 NEW YOR  | HENDERSON, FA   | ARABOW, GARR  | ETT & DUNNERne<br>Stat<br>add<br>trar   | reby certify that these Postal Service versed to the Mai smitted to the USP                               | is Fee(<br>vith suf<br>Stop<br>TO (57            | e of Mailing or Trans<br>s) Transmittal is being<br>ficient postage for firs<br>ISSUE FEE address<br>1) 273-2885, on the d    | mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.                         |
| WASHINGTON   | N, DC 20001-4413  |   |   |   |  |   | (Depositor's name)  |
|  |   |   |   |   |  |   | (Signature)   |
|  |   |   |   |   |  |   | (Date)  |
| APPLICATION NO.  | FILING DATE   |   | FIRST NAMED INVENTOR  |   | ATTO   | RNEY DOCKET NO.   | CONFIRMATION NO.  |
| 10/581,363   | 12/05/2008  |   | Rieko Fukushima   |   |  | 02887.0401  | 4793  |
| TITLE OF INVENTIO<br>PROGRAM THEREFOR  |   | RODUCING MULTI-VI   | EWPOINT IMAGE FO  | R THREE-DIMEI   | NSION.   | AL IMAGE DISPL⊿   | AY AND  |
| APPLN. TYPE  | SMALL ENTITY  | ISSUE FEE DUE   | PUBLICATION FEE DUE   | PREV. PAID ISSU   | E FEE  | TOTAL FEE(S) DUE  | DATE DUE  |
| nonprovisional   | NO  | \$1510  | \$300   | \$0   |  | \$1810  | 12/29/2009  |
| EXAM   | IINER   | ART UNIT  | CLASS-SUBCLASS  | ]   |  |   |   |
| NGUYEN, I  | KIMBINH T   | 2628  | 345-419000  |   |  |   |   |
| <ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol> |   |   | or agents OR, alternati<br>(2) the name of a sing<br>registered attorney or<br>2 registered patent atto<br>listed, no name will be    | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   |  |   |   |
| PLEASE NOTE: Unl   | less an assignee is ident<br>h in 37 CFR 3.11. Comp   | ified below, no assignee  | T a substitute for filing an  (B) RESIDENCE: (CITY  | atent. If an assigr<br>assignment.<br>(7 and STATE OR (   | COUNT  | TRY)  | ocument has been filed for  |
| Please check the appropr   | iate assignee category or   | categories (will not be pa  | rinted on the patent):  | Individual 🖵 C  | orporati   | on or other private gro   | oup entity Government   |
| 4a. The following fee(s)   | are submitted:  | 41  | b. Payment of Fee(s): (Ple  | ase first reapply a   | ny prev  | iously paid issue fee   | shown above)  |
| Issue Fee  | T11   | :   | ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.   |   |  |   |   |
| ☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies  |   |   | The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number |   |  |   |   |
| 5. Change in Entity Sta  | ,   | · · · · · · · · · · · · · · · · · · ·   | _   |   |  |   | ,   |
|  | s SMALL ENTITY state d Publication Fee (if rea  |   | <b>b</b> . Applicant is no longed from anyone other than to   |   |  |   | rk 1.27(g)(2).<br>ne assignee or other party in   |
| interest as shown by the   | records of the United Sta   | tes Patent and Trademark  | C Office.   | пе аррисан, а гед   | isicica .  | attorney of agent, of the   | ic assignee of other party in   |
| Authorized Signature   |   |   |   | Date  |  |   |   |
| Typed or printed name  |   |   |   | -   |  |   |   |
| This collection of inform<br>an application. Confiden<br>submitting the complete<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223   | tiality is governed by 35<br>d application form to the<br>ions for reducing this bu.<br>Virginia 22313-1450. DC | FR 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>rden, should be sent to the<br>O NOT SEND FEES OR | on is required to obtain or 1.14. This collection is es to depending upon the inditience COMPLETED FORMS T                            | retain a benefit by<br>timated to take 12<br>vidual case. Any co<br>er, U.S. Patent and<br>O THIS ADDRES: | the pub<br>minutes<br>omment<br>Traden<br>S. SEN | lic which is to file (and<br>to complete, including<br>son the amount of times<br>and Office, U.S. Depo<br>D TO: Commissioner | d by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, |

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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| APPLICATION NO.                                | FILING DATE    | FIRST NAMED INVENTOR       | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |  |
|--|----------------|----------------------------|-------------------------|------------------|--|
| 10/581,363                                     | 12/05/2008     | 12/05/2008 Rieko Fukushima |                         | 4793             |  |
| 22852 75                                       | 590 09/29/2009 |                            | EXAM                    | INER             |  |
| FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER |                |                            | NGUYEN, KIMBINH T       |                  |  |
| LLP  |                | ART UNIT                   | PAPER NUMBER            |                  |  |
| 901 NEW YORK A                                 |                | 2628                       |                         |                  |  |
| WASHINGTON, DC 20001-4413                      |                |                            | DATE MAILED: 09/29/2009 |                  |  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

|  | Application No.  | Applicant(s)  |  |  |  |  |  |
|--|--|---|--|--|--|--|--|
|  | 10/581,363   | FUKUSHIMA ET AL.  |  |  |  |  |  |
| Notice of Allowability   | Examiner   | Art Unit  |  |  |  |  |  |
|  | Kimbinh T. Nguyen                                      | 2628  |  |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.   |  |   |  |  |  |  |  |
| 1. This communication is responsive to <u>amendment filed 08/12/09</u> .   |  |   |  |  |  |  |  |
| 2. The allowed claim(s) is/are <u>1-17</u> .   |  |   |  |  |  |  |  |
| <ul> <li>3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.</li> </ul> |  |   |  |  |  |  |  |
| THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF   |  |   |  |  |  |  |  |
| INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  |  |   |  |  |  |  |  |
| 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.   |  |   |  |  |  |  |  |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached   |  |   |  |  |  |  |  |
| 1) hereto or 2) to Paper No./Mail Date   |  | n the Office action of  |  |  |  |  |  |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of<br>Paper No./Mail Date  |  |   |  |  |  |  |  |
| Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  |  |   |  |  |  |  |  |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  |  |   |  |  |  |  |  |
| <ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☒ Information Disclosure Statements (PTO/SB/08),</li></ul>   | 6. ☐ Interview Sur<br>Paper No./N<br>7. ☐ Examiner's A | ormal Patent Application mmary (PTO-413), fail Date mendment/Comment statement of Reasons for Allowance |  |  |  |  |  |
| /Kimbinh T. Nguyen/<br>Primary Examiner<br>Art Unit: 2628  |  |   |  |  |  |  |  |

Application/Control Number: 10/581,363 Page 2

Art Unit: 2628

### **DETAILED ACTION**

1. This action is responsive to amendment filed 08/12/09.

2. Claims 1-17 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The prior art does not teach setting viewpoints to be spaced at equal intervals in direction perpendicular to a single reference projection plane; setting individual target viewpoints which are respectively different from the target viewpoints serving as the references; while the shapes and the areas of the individual projection planes which are regions in the projection planes of images acquired from the plurality of viewpoints are kept constant, making a determination, by the processing unit, such that the shapes and the sizes of the individual projection planes are included in the reference projection plane in overlapping regions of the individual projection planes acquired from two viewpoints positioned at the outermost positions of the plurality of viewpoints; and cutting out, by the processing unit, regions of the reference projection plane from the individual projection planes acquired from the respective viewpoints to form a multi-viewpoint image for three-dimensional image display, wherein the cut-out regions are shifted in position in horizontal and vertical directions for the respective viewpoints.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/581,363 Page 3

Art Unit: 2628

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kimbinh T. Nguyen whose telephone number is (571)

272-7644. The examiner can normally be reached on Monday to Friday from 9:00 AM

to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Xiao Wu can be reached at (571) 272-7761. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

September 24, 2009

/Kimbinh T. Nguyen/

Primary Examiner, Art Unit 2628